BOCHVAR, D.A.; STANKEVICH, I.V.; CHISTYAKOV, A.L.

Conjugation energies of some boron-containing systems. Izv. AN SSSR Otd.khim.nauk no.12:2252-2253 D '61. (MIRA 14:11)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Heterocyclic compounds) (Boron compounds)

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Symmetry of solutions in an eigenvalue problem. Usp.mat.nauk 16
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(Eigenvalues) (Symmetric functions)

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no.6:1337-1342 Je '61. (MTRA 14:7)

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(Hydrocarbons) (Molecules)

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Some integral characteristics of distributions applied to quantum-mechanical systems. Entropy of localization, extension, and degree of filling in a quantum-mechanical system. Zhur. fiz. khim. 36 no.12:2674-2679 D 62. (MIRA 16:1)

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(Quantum theory)

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Theory of the perturbation of a continuous spectrum. Dokl.AN SSSR 144 no.2:279-282 My 162. (MIRA 15:5)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.

Predstavleno akademikom I.G.Petrovskim.

(Hilbert space) (Operators (Mathematics))

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Entropy terms as an expression of the uncertainty principle.

Dokl.AN SSSR 149 no.1:68-71 Mr '63. (MIRA 16:2)

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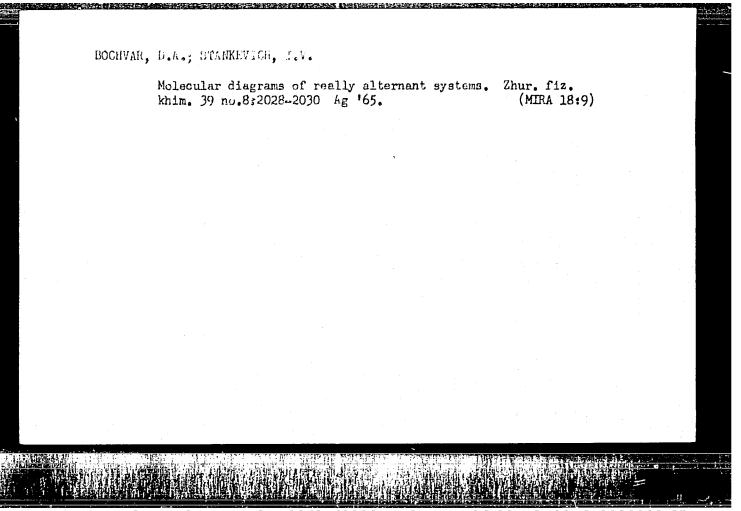
Some consequences of symmetry for the eigenfunction sequence in the one electron problem in a potential field. Zhur. fiz. khim. 38 no.5:1324-1326 My '64. (MIRA 18:12)

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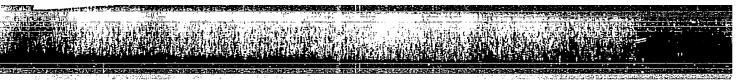
Spectrum of non-self-adjoint differential operators. Dokl. AN SSSR 158 no.1:29-32 S-0 '64 (MIRA 17:8)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. Predstavleno akademikom L.S. Pontryaginym.



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5/0020/65/160/006/1271/1274 L 33992-65 EHT(d)/T IJP(c) ACCESSION NR: AP5007652 AUTHOR: Stankevich, I. V. TITLE: Asymptotic behavior as t goes to infinity of the solution of the nonstationary Schrodinger equation with non-solf-adjoint Hamiltonian SOURCE: AN SSSR. Doklady, v. 160, no. 6, 1965, 1271-1274 TOPIC TAGS: asymptotic property, Schrodinger equation ABSTRACT: For physical applications we are interested in studying the beliavior, for large values of the parameter t, of the solution, in Hilbert space of the nonstationary Schrodinger equation $A^{t} \frac{\partial \psi(t)}{\partial t} = H\psi(t) \quad (-\infty < t < \infty)$ with initial condition $\psi(0)=f,$ where f is from the domain of definition D(H) of the closed operator H. If the operator H is self-adjoint and can be considered as the result of perturbation of the self-adjoint operator H_0 , $H=H_0+V$, and if the initial condition belongs to



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an absolutely continuous subspace with respect to the operator H, then for a wide class of operators the author shows that for large values of t (t = + \omega) the solution of the Schrodinger equation with Hamiltonian H behaves (in the sense of the metric of the space of like the solution of the Schrodinger equation with unperturbed Hamiltonian Ho with initial condition g obtained from f with the help of the linear operator U+, g = U+f. With the help of the latter (called wave operators), the author constructs the scattering operator S, S = U+U, which plays an important role in physics, and shows that for all f from D(H), UHf = HOUf. "In conclusion the author expresses his unbounded gratitude to F. A. Berezin for the formulation of the problem and constant attention to the work, and also to M. A. Naymark and A. G. Kostyuchenko for discussions of the results obtained." Orig. art. has: 7 formulas.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute for Elementoorganic Compounds, Academy of Sciences SSSR)

SUBMITTED: 16Sep64

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Level diagrams of aza-boron alternant systems. Zhur. fiz. khim. 39 no.6:1365-1372 Je '65. (MIRA 18:11)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. Submitted Jan. 4, 1964.

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SOURCE CODE: UR/0039/66/069/002/0161/0207

AUTHOR: Stankevich, I. V. (Moscow)

ORG: none

25

TITLE: The linear similarity between certain nonself-adjoint operators and self-adjoint operators and the asymptotic behavior for t tends to infinity of the solution of the nonstationary Schroedinger equation

SOURCE: Matematicheskiy sbornik, v. 69, no. 2, 1966, 161-207

TOPIC TAGS: linear operator, Schroedinger equation, Cauchy problem, Hilbert space

ABSTRACT: The operator H of a Hilbert space is considered linearly similar to another operator H_0 in the same space if there exists a bounded operator U transforming the region of definition $\mathcal{D}(H_0)$ of the operator H_0 into the region of definition $\mathcal{D}(H)$ of H and satisfying the condition

 $HUf = UH_0f \quad (f \in \mathcal{D}(H_0)).$

The author investigates the case when one of the operators discussed is not self-adjoint. Conditions are established under which H is linearly similar to H_0 and the Cauchy problem is

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